Worksheet 3 Internet security

Task 1

You are responsible for the network security of a new company with one office. It is suggested that a firewall and proxy server are required for the new system.

Describe the role of a firewall in providing security.

What function does a proxy server serve, and can it provide additional security?

Task 2

All employees use their own devices in the office.

The company owner wants to make new employees aware of the best practices for preventing the intrusion of malicious software into the network.

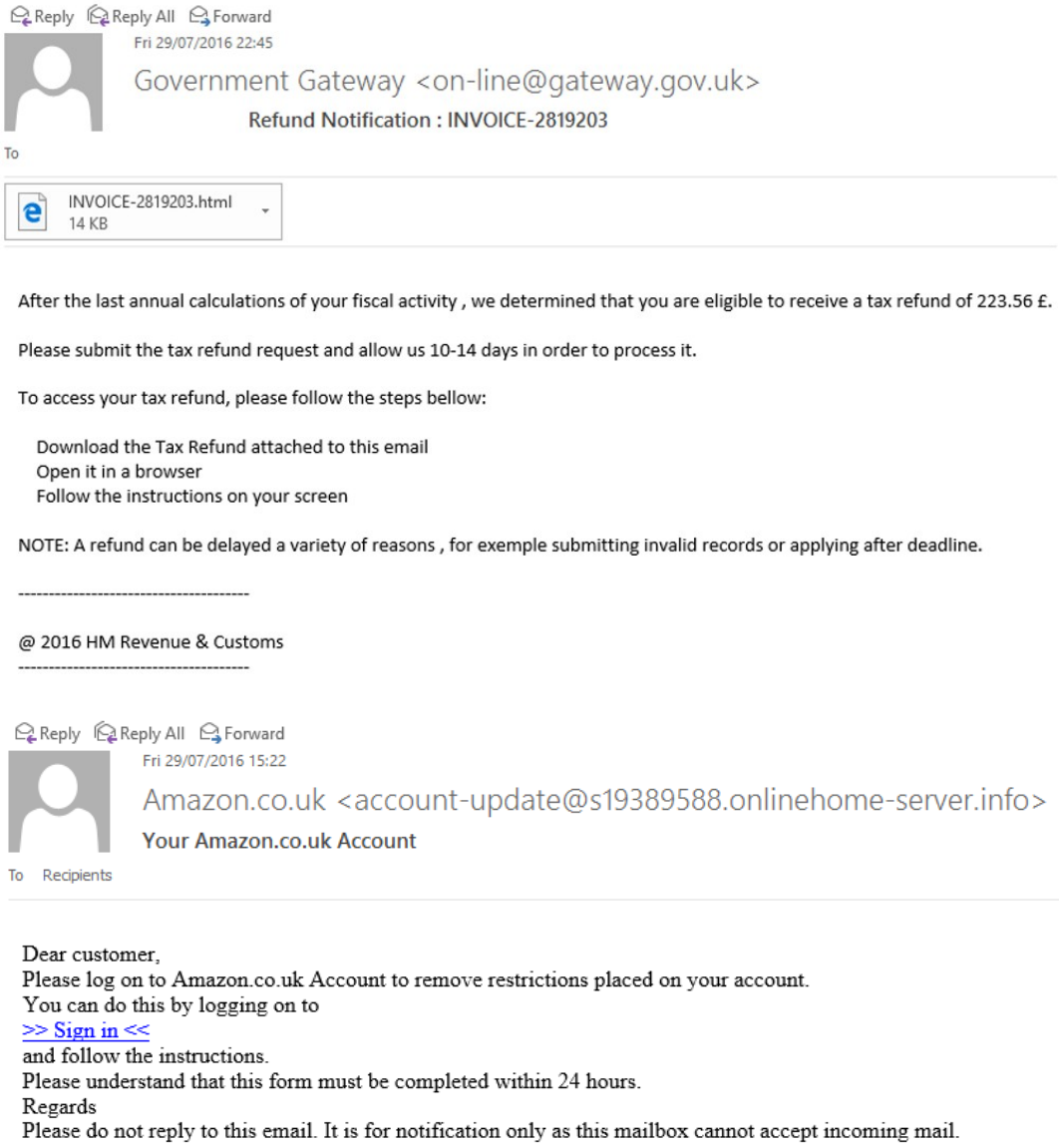
Write an overview that can be used to educate these new employees. You should explicitly mention:

- Preventing viruses
- Preventing worms
- Minimising the chance of phishing

Task 3

Social engineering is 'blagging' or tricking an individual into divulging their confidential details or information. The two email examples below may have come from confidence tricksters with malicious intent.

- What signs can you spot within these phishing emails that indicate they may not be from the advertised sender?



Reply Reply All Forward

Fri 29/07/2016 22:45

Government Gateway <on-line@gateway.gov.uk>

Refund Notification : INVOICE-2819203

To

INVOICE-2819203.html
14 KB

After the last annual calculations of your fiscal activity , we determined that you are eligible to receive a tax refund of 223.56 £.

Please submit the tax refund request and allow us 10-14 days in order to process it.

To access your tax refund, please follow the steps bellow:

Download the Tax Refund attached to this email
Open it in a browser
Follow the instructions on your screen

NOTE: A refund can be delayed a variety of reasons , for exemple submitting invalid records or applying after deadline.

@ 2016 HM Revenue & Customs

Reply Reply All Forward

Fri 29/07/2016 15:22

Amazon.co.uk <account-update@s19389588.onlinehome-server.info>

Your Amazon.co.uk Account

To Recipients

Dear customer,
Please log on to Amazon.co.uk Account to remove restrictions placed on your account.
You can do this by logging on to
>> Sign in <<
and follow the instructions.
Please understand that this form must be completed within 24 hours.
Regards
Please do not reply to this email. It is for notification only as this mailbox cannot accept incoming mail.

- What might happen if you clicked on one of the links or opened the attachment?
  Trojans, or other malware may infect your computer.

Task 4

A University wants to set up and run a course on 'How to create a computer virus'. Discuss whether this is ethical.